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Scientific Chemistry Mar 55 CTS/DEX
Avail. from Associated Tech
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On the Kinetics of Very Rapid Ion Reactions in an
Aqueous Solution, by M. Eigen, 38 pp.

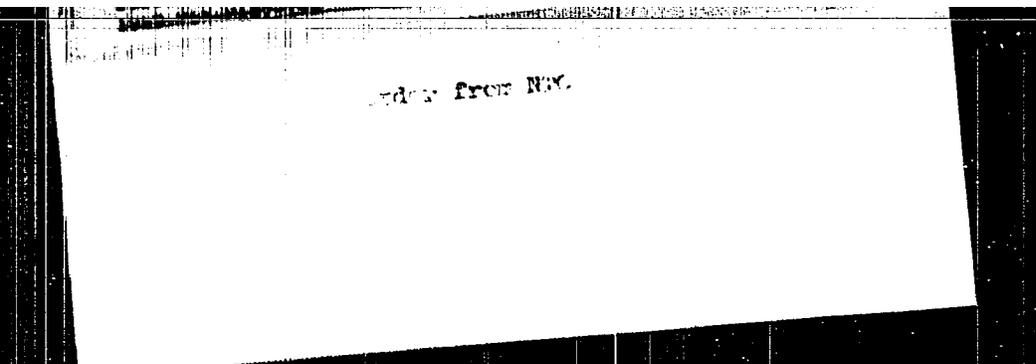
GERMAN, *per*, *Z Physik Chem* (Frankfurt), Vol I,
1954, pp 176-200.

SLA-57-257P

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Sci - Physics
Sep 57



60-23424 |

Schwab, G. M. and Kolb, E.
VISCOSITY OF SULFURIC ACID, tr. by Bertha P.
Klenova. 11 Mar 55, 13p. 11 refs. [No.] 3413.
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I. Schwab, G. M.
II. Kolb, E.
III. TVA-3413
IV. Tennessee Valley Authority,
Wilson Dam, Ala.

Trans. of Z[sch]rift f[ur] Physikalische Chem[ie],
Frankfurt (West Germany) 1955, N[eu]e F[olge] v. 3,
p. 52-64.

DESCRIPTOR S: *Sulfuric acid, Viscosity, Tempera-
ture, Electrolytes.

Viscosity measurements of sulfuric acid have been
made with an Ostwald viscosimeter in the concentration
range 80 to 115% H₂SO₄ and in the temperature range
20° to 132° C. The values reported are accurate to
±0.5 per cent. Dilute solutions of sodium hydrogen
sulfate and acetic acid anhydride in sulfuric acid have
also been investigated. An equation has been proposed
for expressing the temperature-dependence of viscosity
(Chemistry--Physical, TT. v. 8, no. 1) (over)

5-22-62

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60-23438

Schlögl, R.
THEORY OF ANOMALOUS OSMOSIS, tr. by Bertha P.
Klenova. 10 June 55 [27]p. 30 refs. [No.] 3444.
Order from CTS or SLA \$2.60 60-23438

Trans. of Z[schrift für] Physik[alische] Chem[ie],
Frankfurt (West Germany) 1955, N[eu]e F[olge] v. 5,
p. 73-102.

DESCRIPTORS: *Electroosmosis, Theory, Membranes,
Electrolytes, *Diffusion, Hydrostatic pressure, Electric
fields, *Electrochemistry.

With the aid of a simple model of a porous charged
membrane the phenomenon of "anomalous osmosis" in
the diffusion of electrolytes is explained by the action
of a hydrostatic pressure gradient and an electric field
in the interior of the membrane. Both the anomalous
positive and negative osmosis and a diffusion of the
(Chemistry--Physical, TT, v. 8, no. 1) (over)

I. Schlögl, R.
II. TVA-3444
III. Tennessee Valley
Authority, Wilson Dam,
Ala.

NIH 7-21-60

5-22-62

Office of Technical Services

Franck, U. P.
STABILITY OF ELECTRODE STATES. [1962] 29p.
Order from ATS \$33. 40 ATS-99P59G

Trans. of Z[schrift für] Physik[allache] Chem[ie]
Frankfurt (West Germany) 1955 [Neue Folge] v. 3,
no. 3/4, p. 183-221.

DESCRIPTORS: *Electrodes. Stability.

(Chemistry--Physical. TT. v. 8, no. 1)

62-17319

- I. Franck, U. P.
- II. ATS-99P59G
- III. Associated Technical
Services, Inc., East
Orange, N. J.

ATS/986-6J

Office of Technical Services

The Reaction-Mechanism of the Acid-Dissociation
as Shown by the Protolytic Reaction of Activated
 β -Naphthal, by A. Weller, 17 pp.

GERMAN, per, Z fuer Physikalische Chemie, Vol III,
No 3/4, 1955, pp 238-254. 9097549

A.C.S.I.L. No 1187

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Mar 62

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Electrodifffusion in Free Solution and Charged
Membranes, by R. Schlögl, 33 pp.
GERMAN, per, Z Physik Chem (Frankfurt), No 5/6,
1954, pp 305-339.
AEC/ORNL-Tr-2059-70

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Apr 70

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X-Ray Analysis of the Electron Distribution in
Crystals IV. The Electron Distribution in
Aluminum 1,2,3,4, by W. Bensch.
GERMAN, per, Z. Phy Chem, Vol 4, 1955,
pp 65-88.
NTC-70-15210-20B

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Jan 71

Detection of Dislocations During the Degradation of Tungsten, Tantalum and Nickel Monocrystals, by M. Drechsler, G. Pankow, et al. GERMAN, per, Z. Phys. Chem, Vol 4, 1955, pp 249-263.
TIL tr T.5666

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Jun 67

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